

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the upper Neuse River Basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory. Samples for October 1994, and April 1995, were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey National Water Quality Lab. Results may be obtained from the District office in Raleigh.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-	PH	BARO-		OXYGEN,	BICAR-		
		CHARGE, INST. CUBIC FEET	SPE- CIFIC CON- DUCT-	WATER WHOLE FIELD	TEMPER- (STAND- ARD)	SURE ATURE WATER	(MM HG)	SOLVED OF SOLVED	(PER- CENT (MG/L)
		(00061)	(00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(99440)
OCT 25...	1430	7.5	90	6.8	15.0	--	3.7	--	--
APR 24...	1230	25	80	7.0	16.0	--	8.0	--	--
JUL 26...	1515	91	61	6.8	25.0	752	8.9	109	14
AUG 29...	1345	74	56	6.8	23.5	752	5.7	68	14
DATE		ALKALINITY, CARBONATE IT-FLD (MG/L - CAC03) (99430)	NITRO- GEN, NITRATE TOTAL (MG/L - AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--
JUL 26...	12	0.400	0.010	0.410	0.070	0.53	0.33	0.60	
AUG 29...	12	0.290	<0.010	0.290	0.040	0.56	0.56	0.60	

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	NITRO- GEN, AM-		NITRO- GEN		PHOS- PHORUS		PHOS- PHORUS		SEDI- MENT,	
	MONIA + ORGANIC	NITRO- DIS.	GEN, DIS.	SOLVED	PHORUS	DIS-	DIS-	ORTHO, SOLVED	SEDI- MENT,	DIS- CHARGE,
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	TOTAL	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	PENDED	PENDED (T/DAY)
	(00623)	(00600)	(00602)	(00665)	(00666)	(00671)	(00671)	(80154)	(80155)	
OCT 25...	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--
JUL 26...	0.40	1.0	0.81	0.060	0.020	0.020			5	1.2
AUG 29...	0.60	0.89	0.89	0.090	0.040	0.040			42	8.4

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET	SPE- CIFIC CON- DUCT- PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, (PER- CENT SOLVED (MG/L) (00025)	OXYGEN, (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SOLVED (MG/L) (00301)	BICAR- BONATE IT-FLD AS HCO3) (99440)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03) (99430)
OCT 04...	1700	8.8	90	7.3	19.0	746	6.4	71	39	32
NOV 29...	1330	75	74	7.0	10.0	747	10.3	93	27	22
DEC 13...	1030	118	63	6.5	3.0	767	13.5	99	20	16
JAN 22...	1245	264	61	6.6	3.0	769	12.6	93	17	14
27...	1130	1130	57	6.9	--	--	--	--	--	--
MAR 05...	1045	75	71	7.1	6.5	761	12.7	104	26	21
28...	1330	174	70	7.1	--	--	--	--	21	17
APR 30...	1330	718	72	7.1	18.0	748	8.9	96	26	21
JUN 26...	1345	15	91	7.1	28.0	765	7.4	94	40	33
JUL 23...	0930	11	101	7.1	25.0	756	4.9	60	43	35
AUG 13...	1215	180	65	6.8	21.0	749	8.3	95	19	16
SEP 26...	0915	43	84	7.1	19.0	765	8.2	88	31	25

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)
OCT 04...	--	<0.010	<0.050	0.020	--	0.18	<0.20	0.20	--	--
NOV 29...	0.340	<0.010	0.340	<0.015	0.30	--	0.30	<0.20	0.64	--
DEC 13...	0.310	<0.010	0.310	<0.015	0.30	--	0.30	0.30	0.61	0.61
JAN 22...	0.420	0.010	0.430	0.020	0.28	0.18	0.30	0.20	0.73	0.63
27...	0.290	<0.010	0.290	<0.015	0.70	--	0.70	0.30	0.99	0.59
MAR 05...	0.260	0.010	0.270	<0.015	--	--	<0.20	<0.20	--	--
28...	0.280	<0.010	0.280	<0.015	0.20	--	0.20	<0.20	0.48	--
APR 30...	0.250	<0.010	0.250	<0.015	0.50	--	0.50	0.30	0.75	0.55
JUN 26...	0.220	<0.010	0.220	0.050	0.35	0.25	0.40	0.30	0.62	0.52
JUL 23...	0.260	0.020	0.280	0.090	0.21	0.21	0.30	0.30	0.58	0.58
AUG 13...	0.310	0.010	0.320	0.030	0.57	0.27	0.60	0.30	0.92	0.62
SEP 26...	0.140	0.010	0.150	0.040	0.16	0.16	0.20	0.20	0.35	0.35

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	PHOS-	PHORUS	PHOS-	ALUM-		CHRO-		COPPER ,	IRON ,	
	PHORUS	DIS-	ORTHO ,	INUM ,	CADMIUM	MIUM,	COBALT ,	TOTAL	TOTAL	
	TOTAL	SOLVED	SOLVED	TOTAL	WATER	TOTAL	TOTAL	RECOV-	RECOV-	
DATE	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(UG/L AS AL)	(UG/L AS AS)	(UG/L AS CD)	(UG/L AS CR)	(UG/L AS CO)	(UG/L AS CU)	
	(00665)	(00666)	(00671)	(01105)	(01002)	(01027)	(01034)	(01037)	(01042)	
OCT 04...	0.050	0.020	0.020	300	<1	<1	<1	<1	2	480
NOV 29...	0.040	<0.010	<0.010	--	--	--	--	--	--	--
DEC 13...	0.030	0.020	0.020	--	--	--	--	--	--	--
JAN 22...	0.060	0.020	0.020	--	--	--	--	--	--	--
	27...	0.190	0.040	0.030	--	--	--	--	--	--
MAR 05...	0.010	<0.010	<0.010	--	--	--	--	--	--	--
	28...	0.020	0.010	0.010	--	--	--	--	--	--
APR 30...	0.070	0.020	0.020	--	--	--	--	--	--	--
JUN 26...	<0.010	0.020	0.020	--	--	--	--	--	--	--
JUL 23...	0.060	0.020	0.020	--	--	--	--	--	--	--
AUG 13...	0.090	0.030	0.030	--	--	--	--	--	--	--
SEP 26...	0.020	<0.010	<0.010	--	--	--	--	--	--	--

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-	CHARGE,	SPE-	PH	COLOR	BARO-	OXYGEN,	HARD-	CALCIUM
		INST.	CIFIC	WATER	FIELD		METRIC	DIS-		
		CUBIC	CON-	WHOLE	(PLAT-	PRES-	SOLVED	TOTAL	SOLVED	
		FEET	DUCT-	(STAND-	ATURE	INUM-	(MM	(MG/L)	(MG/L)	
		PER	ANCE	ARD	WATER	COBALT	OF	SATUR-	AS	
		SECOND	(US/CM)	(00040)	(DEG C)	UNITS)	(HG)	ATION)	CACO3)	(00915)
		(00061)	(00095)	(00010)	(00080)	(00025)	(00300)	(00301)	(00900)	
OCT	08...									
NOV	25...	1315	271	75.0	7.11	15.0	100	743	8.90	91
DEC	16...	1600	69	106	6.81	8.0	--	752	11.2	96
JAN	13...	1330	102	87.0	6.52	7.0	--	755	11.3	94
JAN	16...	1315	171	68.0	6.20	3.5	--	760	12.7	96
FEB	15...	1230	667	62.0	6.60	--	--	--	--	--
MAR	10...	0900	2950	52.0	--	--	--	--	--	--
APR	15...	1345	159	71.0	6.45	13.5	--	754	10.1	98
JUN	28...	1415	83	78.0	6.99	15.0	--	760	10.4	103
JUN	11...	1200	4250	47.0	5.71	13.0	--	753	9.80	94
JUL	15...	1010	53	79.0	6.75	18.5	--	755	7.80	84
AUG	18...	1105	11	93.0	7.15	26.0	--	753	7.20	90
SEP	16...	1230	7.5	96.0	6.93	28.0	--	750	5.50	72
SEP	16...	1330	8.8	79.0	6.71	22.5	--	754	5.20	61
<hr/>										
DATE		MAGNE-	SODIUM,	SODIUM	POTAS-	BICAR-	UNFLTRD	CHLO-	FLUO-	SILICA,
		SIUM,	DIS-	DIS-	AD-	SIUM,	BONATE	CARBON-	SULFATE	RIDE,
		SOLVED	SOLVED	SODIUM	SORP-	DIS-	IT-FLD	ATE	DIS-	SOLVED
		(MG/L)	(MG/L)	PERCENT	DIS-	IT-FLD	(MG/L)	DIS-	DIS-	(MG/L)
		(00925)	(00930)	(00932)	(00931)	(00935)	(99440)	(99430)	(9945)	(00940)
		(00930)	(00930)	(00932)	(00931)	(00935)	(99440)	(99430)	(00945)	(00950)
OCT	08...									
NOV	25...	2.2	4.3	26	.4	2.7	27	22	3.8	5.4
DEC	16...	--	--	--	--	--	26	22	--	--
JAN	13...	--	--	--	--	--	25	20	--	--
JAN	16...	--	--	--	--	--	--	--	--	--
FEB	15...	--	--	--	--	--	--	--	--	--
MAR	10...	--	--	--	--	--	24	19	--	--
APR	15...	--	--	--	--	--	--	--	--	--
JUN	28...	--	--	--	--	--	10	9.0	--	--
JUN	11...	--	--	--	--	--	--	--	--	--
JUL	15...	--	--	--	--	--	--	--	--	--
AUG	18...	--	--	--	--	--	--	--	--	--
SEP	16...	--	--	--	--	--	24	20	--	--

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

	SOLIDS, RESIDUE	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,	NITRO- GEN, AM-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN	PHOS-	
AT 180	NITRITE	NO2+NO3	AMMONIA	GEN,	ORGANIC	MONIA +	MONIA +	NITRO-	DIS-	PHORUS	
DEG. C	DIS-	DIS-	DIS-	ORGANIC	DIS-	ORGANIC	ORGANIC	GEN,	DIS-		
DATE	DIS-	SOLVED	SOLVED	SOLVED	TOTAL	SOLVED	TOTAL	DIS.	TOTAL	SOLVED	TOTAL
	SOLVED (MG/L) (AS N) (70300)	(MG/L) (AS N) (00613)	(MG/L) (AS N) (00631)	(MG/L) (AS N) (00608)	(MG/L) (AS N) (00605)	(MG/L) (AS N) (00607)	(MG/L) (AS N) (00625)	(MG/L) (AS N) (00623)	(MG/L) (AS N) (00600)	(MG/L) (AS N) (00602)	(MG/L) (AS P) (00665)

OCT												
8...	54	<.010	.230	.020	.48	.18	.50	.20	.73	.43	.110	
NOV												
25...	--	.020	.310	.120	.18	.28	.30	.40	.61	.71	.030	
DEC												
16...	--	.010	.460	.040	.16	--	.20	<.20	.66	--	.020	
JAN												
13...	--	<.010	.360	.020	.28	--	.30	<.20	.66	--	<.010	
16...	--	<.010	.240	.040	.36	--	.40	<.20	.64	--	.090	
FEB												
15...	--	.010	.270	.020	.38	.28	.40	.30	.67	.57	.040	
MAR												
10...	--	<.010	.440	<.015	--	--	.30	.20	.74	.64	.010	
APR												
15...	--	<.010	.230	<.015	--	--	.30	.20	.53	.43	.050	
28...	--	.02	.42	.13	1.1	.51	1.2	.6	1.7	1.1	.20	
JUN												
11...	--	<.01	.42	<.02	--	--	.3	.3	.75	.68	.03	
JUL												
15...	--	<.01	.07	<.02	--	--	<.2	<.2	--	--	<.01	
AUG												
18...	--	<.01	.05	.02	.28	.20	.3	.2	.35	.27	.02	
SEP												
16...	--	<.01	.30	.06	.46	--	.5	<.2	.82	--	.05	

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

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DATE	TIME	DIS-CHARGE, INST. CUBIC FEET	SPE-CIFIC CON- DUCT-	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR INUM- COBALT (MM UNITS)	BARO-METRIC PRES- SURE (PLAT- OF HG)	OXYGEN, DIS- SOLVED (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT (MG/L HG))	HARD-NESS TOTAL SATUR- ATION) (00300)	CALCIUM DIS- SOLVED (MG/L AS CACO3)	CALCIUM (00900) AS CA (00915)	
		PER SECOND (00061)	PER SECOND (00095)	PER SECOND (00400)	PER SECOND (00010)	PER SECOND (00080)	PER SECOND (00025)	PER SECOND (000300)	PER SECOND (00301)	PER SECOND (00900)	PER SECOND (00915)		
OCT 28...	1415	41	92	6.9	13.5	--	759	8.8	85	--	--	--	
NOV 24...	1330	152	70	7.3	9.0	--	762	10.7	93	--	--	--	
JAN 08...	1300	1610	63	6.8	14.0	--	747	9.2	91	--	--	--	
FEB 04...	1200	4550	41	6.5	--	--	--	--	--	--	--	--	
	1315	9780	31	6.7	10.2	120	739	10.4	96	10	2.2		
MAR 19...	1355	15700	29	6.1	--	--	--	--	--	--	--	--	
APR 24...	1450	180	63	7.1	16.0	--	728	10.2	108	--	--	--	
MAY 28...	1130	121	76	7.0	21.5	--	758	7.8	89	--	--	--	
JUN 19...	1215	32	81	7.1	25.5	--	754	6.7	83	--	--	--	
JUL 21...	1225	9.6	85	7.3	--	--	--	--	--	--	--	--	
AUG 20...	1215	11	89	7.1	24.5	--	764	6.6	79	--	--	--	
SEP 22...	1420	4.4	74	7.2	27.0	--	755	7.8	99	--	--	--	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM ADSORBED SOLVED PERCENT (00930)	POTAS-SIUM, DIS-SOLVED RATION (00932)	BICAR-BONATE (MG/L AS K)	UNFLTRD CARBON- IT-FLD (MG/L HCO3)	ANC CARBON- IT-FLD (MG/L CACO3)	NITRO- GEN, NO2+NO3 (99440)	NITRO- GEN, DIS-SOLVED SOLVED (MG/L AS N)	NITRO- GEN, DIS-SOLVED SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (00631)	NITRO- GEN, DIS-SOLVED SOLVED (MG/L AS N)
OCT 28...	--	--	--	--	--	--	--	<.010	.140	<.015	--	--	
NOV 24...	--	--	--	--	--	--	--	<.010	.334	<.020	--	--	
JAN 08...	--	--	--	--	--	--	--	.017	.238	<.020	--	--	
FEB 04...	--	--	--	--	--	--	--	<.010	.177	.077	.65		
	1.0	1.5	22	.2	1.5	15	12	.005	.118	.014	.55		
MAR 19...	--	--	--	--	--	--	--	<.010	.164	.123	.69		
APR 24...	--	--	--	--	--	--	--	<.010	.322	.044	.24		
MAY 28...	--	--	--	--	--	--	--	.017	.473	.096	.24		
JUN 19...	--	--	--	--	--	--	--	<.010	.137	.068	.20		
JUL 21...	--	--	--	--	--	--	--	<.010	.129	.051	.34		
AUG 20...	--	--	--	--	--	--	--	.019	.143	.142	.16		
SEP 22...	--	--	--	--	--	--	--	<.010	.078	.048	.34		

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00600)	PHOS- PHORUS DIS- TOTAL (MG/L AS P) (00602)	PHOS- PHORUS DIS- TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00671)	SEDI- MENT, ORGANIC SUS- PENDED (MG/L) (00680)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80154)	
OCT 28...	--	.41	.27	.56	.41	.041	<.010	<.010	--	18	2.0
NOV 24...	--	.43	.34	.77	.67	.040	<.010	.022	--	33	14
JAN 08...	--	1.1	.36	1.4	.60	.209	.023	.024	--	581	2530
FEB 04...	.46	.73	.53	.90	.71	.148	.060	.050	--	126	1550
	17...	--	.57	--	.68	--	.099	--	.023	14	4150
MAR 19...	.30	.81	.42	.98	.58	.150	.042	.025	--	103	4370
APR 24...	.22	.28	.27	.60	.59	.025	.017	.025	--	8	3.9
MAY 28...	.18	.34	.28	.81	.75	.054	<.010	.018	--	--	--
JUN 19...	.13	.27	.20	.41	.34	.024	<.010	.011	--	9	.78
JUL 21...	.18	.39	.23	.52	.36	.041	.035	.026	--	15	.39
AUG 20...	.14	.30	.28	.44	.42	.023	.028	.019	--	15	.45
SEP 22...	--	.38	<.10	.46	--	.039	<.010	.018	--	9	.11

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET	SPE-CIFIC PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD) (US/CM) (00095)	COLOR TEMPER- ATURE INUM- WATER COBALT UNITS) (00400)	BARO-METRIC PRES- SURE (PLAT- (MM OF HG) (00010) (00080)	OXYGEN, OXYGEN, DIS-SOLVED (PER- CENT OF HG) (00025) (00025)	OXYGEN, TOTAL DIS-SOLVED AS SOLVED (MG/L) (00300) (00301)	HARD-NESS CALCIUM DIS-SOLVED AS CACO3 (MG/L) (00900) (00915)		
OCT 26...	1200	3.1	90	7.0	13.0	--	764	7.6	72	--	--
DEC 10...	1415	40	106	6.9	11.5	--	768	8.6	79	--	--
JAN 20...	1500	79	65	7.0	7.8	--	762	12.1	102	--	--
FEB 24...	1445	64	69	7.1	4.3	--	763	17.0	130	--	--
MAR 31...	1145	60	70	6.8	12.4	--	770	11.0	102	--	--
APR 28...	1245	45	77	7.3	16.4	--	760	8.0	82	--	--
MAY 19...	1130	37	71	6.7	19.0	--	754	8.1	89	--	--
JUN 14...	1245	8.3	86	7.1	25.1	--	757	7.6	92	--	--
JUL 14...	1135	19	81	6.8	20.8	--	761	7.0	79	--	--
AUG 17...	1010	3.3	89	6.9	26.0	--	760	5.0	62	--	--
SEP 06...	1130	2670	44	6.5	21.1	120	749	8.2	94	13	3.0
<hr/>											
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT (00930)	SODIUM ADSORP-TION (00932)	POTAS-SIUM, DIS-SOLVED (00931)	SULFATE DIS-SOLVED (00935)	CHLO- RIDE, DIS-SOLVED (00945)	FLUO- RIDE, DIS-SOLVED (00940)	SILICA, AT 180 (00950)	SOLIDS, RESIDUE AT 180 (00955) (70300)
OCT 26...	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--	--	--	--	--
SEP 06...	1.4	2.1	21	.2	2.6	4.9	2.8	<.10	6.8	58	

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	PHOS-	
	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00605)	MONIA + DIS- SOLVED (MG/L AS N) (00607)	MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00625)	TOTAL DIS. (MG/L AS N) (00623)	GEN, TOTAL DIS. (MG/L AS N) (00600)	SOLVED (MG/L AS N) (00602)	TOTAL (MG/L AS P) (00665)
OCT 26...	.010	.050	.044	.16	.18	.20	.22	.25	.27	.018
DEC 10...	<.010	<.050	.028	.18	.17	.20	.20	--	--	.028
JAN 20...	<.010	.307	.036	.92	.23	.96	.27	1.3	.58	E.030
FEB 24...	<.010	.214	<.020	--	--	.28	.21	.49	.42	<.050
MAR 31...	<.010	<.050	<.020	--	--	.20	.21	--	--	E.030
APR 28...	<.010	.153	.033	.26	.19	.29	.23	.45	.38	E.038
MAY 19...	<.010	.292	.033	.17	.20	.20	.23	.50	.52	<.050
JUN 14...	<.010	<.050	.022	.32	.25	.34	.27	--	--	<.050
JUL 14...	<.010	.211	.043	.41	.22	.45	.26	.66	.47	.061
AUG 17...	<.010	<.050	.033	.44	.32	.47	.35	--	--	<.050
SEP 06...	.007	.067	.022	.96	--	.98	--	1.0	--	.145
<hr/>										
DATE	PHOS-	PHOS-	ALUM-	CADMIUM	CHRO-	COBALT,	COPPER,	IRON,	LEAD,	
	PHORUS	PHORUS	INUM, ORTHO, TOTAL	WATER	MIUM, TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
DATE	DIS-	DIS-	RECOV-	ARSENIC	UNFLTRD	RECOV-	RECOV-	RECOV-	RECOV-	
	SOLVED	SOLVED	ERABLE	TOTAL	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE	
DATE	(MG/L AS P)	(MG/L AS P)	(AS AL)	(UG/L AS AS)	(UG/L AS CD)	(UG/L AS CR)	(UG/L AS CO)	(UG/L AS CU)	(UG/L AS FE)	(UG/L AS PB)
	(00666)	(00671)	(01105)	(01002)	(01027)	(01034)	(01037)	(01042)	(01045)	(01051)
OCT 26...	.014	.014	--	--	--	--	--	--	--	--
DEC 10...	<.050	.010	--	--	--	--	--	--	--	--
JAN 20...	<.050	.013	--	--	--	--	--	--	--	--
FEB 24...	<.050	<.010	--	--	--	--	--	--	--	--
MAR 31...	<.050	<.010	--	--	--	--	--	--	--	--
APR 28...	<.050	.013	--	--	--	--	--	--	--	--
MAY 19...	E.033	.032	--	--	--	--	--	--	--	--
JUN 14...	<.050	.011	--	--	--	--	--	--	--	--
JUL 14...	<.050	.018	--	--	--	--	--	--	--	--
AUG 17...	<.050	<.010	--	--	--	--	--	--	--	--
SEP 06...	--	.043	1200	<1	<1	1	1	5	1900	3

NEUSE RIVER BASIN

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	MANGANESE,	MERCURY	MOLYB-	NICKEL,	SELE-	SILVER,	ZINC,	CARBON,	SEDI-	MENT,
	TOTAL	TOTAL	TOTAL	TOTAL	NIUM,	RECOV-	TOTAL	ORGANIC	MENT,	DIS-
RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	TOTAL	SUS-	CHARGE,	
ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	(UG/L)	(MG/L)	PENDED	PENDED
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(AS ZN)	(AS C)	(MG/L)	(T/DAY)
AS MN)	AS HG)	AS MO)	AS NI)	AS SE)	AS AG)	AS AG)	(01092)	(00680)	(80154)	(80155)
(01055)	(71900)	(01062)	(01067)	(01147)	(01077)	(01077)				
OCT										
26...	--	--	--	--	--	--	--	--	4	.03
DEC										
10...	--	--	--	--	--	--	--	--	8	.86
JAN										
20...	--	--	--	--	--	--	--	--	9	1.9
FEB										
24...	--	--	--	--	--	--	--	--	4	.69
MAR										
31...	--	--	--	--	--	--	--	--	7	1.2
APR										
28...	--	--	--	--	--	--	--	--	7	.83
MAY										
19...	--	--	--	--	--	--	--	--	6	.60
JUN										
14...	--	--	--	--	--	--	--	--	5	.11
JUL										
14...	--	--	--	--	--	--	--	--	20	1.0
AUG										
17...	--	--	--	--	--	--	--	--	7	.06
SEP										
06...	200	<.10	<1	2	<1	<1	<40	18	143	1030

